## 

$$f(x) = \ln x - \frac{1}{2} (ax - \frac{1}{x})$$

$$0 = \ln x - \frac{1}{2} (ax - \frac{1}{x})$$

$$0 = \ln a = 1 = 0 = 0 < x < 1 = f(x) > 0 = x > 1 = f(x) < 0$$

$$0200 f(x) 0000000 \frac{X_1}{2} \frac{f(x_1) - f(x_2)}{2} < \frac{1 - a}{2} 0$$

$$f(x) = \frac{1}{x} - x + alnx$$

a = 0

02000 f(x) 00000

$$200 X_0 X_1 X_2 (0 < X_1 < X_2) 000 G(X) = f(X) + X_{00000000000} G(X_1) - G(X_2) < \frac{a}{2} - \ln a = 0$$

$$4002021 \quad \bullet \quad 000000000 \qquad f(x) = lnx - \frac{a}{x+1} (a \in R)$$

o'oooo y = f(x) oooooooooo aooooo

$$= \int_{\mathbb{R}^{N}} \int_{\mathbb{R}^{N}}$$

$$f(x) = \frac{1}{2}ax^{2} - 2x + \ln x$$

$$000 = \frac{1}{2}ax^{2} - 2x + \ln x$$

$$000 = \frac{1}{2}ax + \ln x$$

$$200 f(x) = 00000 X_0 X_0 = 0000 f(x) + f(x) < -30$$

010000 <sup>f(x)</sup>000000

 $010000^{a}000$ 

020000 g(x) 00000000000 b000000

$$f(x) = \frac{\partial e^x}{X} + \ln x \quad x, a \in R$$

11002021 • 00000000000  $f(x) = x^2 - 2axlnx + 1_{000000} X_0 X_0$ 

 $0100^{a}000000$ 

$$20000 \frac{X_2 f(X_1) - X_1 f(X_2)}{X_2 - X_1} < \vec{d} + 1$$

12002021  $\bigcirc \bullet$  00000000000  $f(x) = alnx - ax + 1_0$ 

0100000 <sup>f(x)</sup>00000

$$g(x) = f(x) + \frac{1}{2}x^2 - 1_{000000} x_0 x_2(x_1 \neq x_2)_{0}$$

 $\textcircled{1} \ \square \ ^{a} \square \square \square \square \square$ 

13002021  $\bigcirc \bullet$ 00000000000  $f(x) = -hx - ax^2 + 4x(a > 0)$ 

0100 f(x)00000000000a000000

0200 f(x) 0000000000  $X_0 X_0 0000 f(x) + f(x) > 3 + 2h2_0$ 

$$14002021 \, \bigcirc \bullet \, 0000000 \, \stackrel{f(\vec{x})}{=} \, lnx + \frac{a}{x+1} \, \bigcirc \, a \in R_{\square}$$

$$0100 \, \stackrel{a>2}{=} \, 000000 \, \stackrel{f(\vec{x})}{=} \, 00000$$

$$200 f(x) = f($$

$$a = -\frac{5}{2}$$

$$020000 \xrightarrow{f(X)} 0000000 \xrightarrow{X_1} \xrightarrow{X_2} 00 \xrightarrow{X_1} \xrightarrow{X_2} \frac{f(X_1) - f(X_2)}{a} < m = 00000000 \xrightarrow{m_0} 00000000$$

$$f(x) = \frac{1}{2}(x^2 + 1) + a(\ln x - 4x + 1)$$

$$200 \ f(x) \ 0000000 \ X_0 \ X_2 \ 00 \ f(x) + f(x_2)...f(x_{X_2}) - 4a_{00} \ a_{000000}$$

19002021 
$$\bigcirc \bullet$$
 00000000000  $f(x) = hx - ax^2 - bx_0$ 

$$0100 a = 000 f(x) 0000 - 10$$

0i0000*b*000

$$\lim_{n\to\infty} 2\ln x < (x-1)e^x$$

$$2002021 \ 0 \bullet 0000000 \ f(x) = 2e^{x} (e^{x} - 2a) + 4ax + e^{x} 0$$

$$f(x) = \ln x - ax - \frac{2}{ax}$$

$$g(x) = f(x) + x^2 + \frac{2}{ax_{0000000000}} x_0 x_2(x_1 < x_2) \cos 2g(x_1) - g(x_2) \cos 2g(x_1) - g(x_2) \cos 2g(x_2) + g(x_2) \cos 2g(x_1) + g(x_2) \cos 2g(x_2) + g(x_2) \cos 2g(x_1) + g(x_2) \cos 2g(x_2) + g(x_1) \cos 2g(x_2) + g(x_2) \cos 2g(x_1) + g(x_2) \cos 2g(x_2) + g(x_2) \cos 2g(x_1) + g(x_2) \cos 2g(x_2) + g(x_1) \cos 2g(x_2) + g(x_2) \cos 2g(x_1) + g(x_2) \cos 2g(x_2) + g(x_2) \cos 2g(x_2) + g(x_2) \cos 2g(x_2) + g(x_1) \cos 2g(x_2) + g(x_2) \cos 2g(x_$$



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